SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-DOCK9 antibody

Catalog Number: SL14405R

FOR RESEARCH USE ONLY

[DATASHEET]

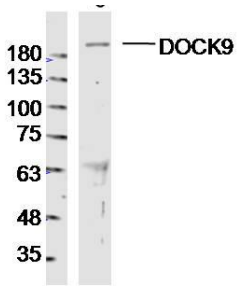
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	DOCK9
Immunogen:	KLH conjugated synthetic peptide derived from human DOCK9: 1451-1550/2069
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	236kDa
Subcellular Location:	cytoplasmic
Background:	DOCK9 is a 2,069 amino acid protein that localizes to the intracytoplasmic membrane and contains one PH domain, one DHR-1 domain and one DHR-2 domain. Expressed in a variety of tissues with highest expression in placenta and heart and lower expression in lung, kidney, brain and skeletal muscle, Zizimin-1 functions as a guanine nucleotide-exchange factor (GEF) that specifically activates Cdc42 by exchanging bound GDP for free GTP. Four isoforms of Zizimin-1 exist due to alternative splicing events. The gene encoding Zizimin-1 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections. **Function:** DOCK9 is a guanine nucleotide exchange factor (GEF) that activates CDC42 by exchanging bound GDP for free GTP. Its overexpression

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	induces filopodia formation. **Subunit:** Homodimer (Probable). Interacts preferentially with nucleotide-depleted CDC42. **Subcellular Location:** Intracytoplasmic membrane **Similarity:** Belongs to the DOCK family. Contains 1 DHR-1 domain. Contains 1 DHR-2 domain. Contains 1 PH domain. **Database links:** **Entrez Gene:** 23348 Human Omim: 607325 Human **SwissProt:** Q9BZ29 Human

[VALIDATION IMAGES]



Sample: U251 Cell Lysate at 40 ug
Primary: Anti-DOCK9 (SL14405R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 236 kD
Observed band size: 236 kD

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